

-1- (JAPIO)  
ACCESSION NUMBER 85-146454  
TITLE ZINC ALKALINE BATTERY  
PATENT APPLICANT (2000582) MATSUSHITA ELECTRIC IND CO LTD  
INVENTORS MIURA, AKIRA; OMURA, TSUKASA; OKAZAKI, RYOJI; TAKADA, KANJI  
PATENT NUMBER 85.08.02 J60146454, ~~8500146454~~  
APPLICATION DETAILS 84.01.06 84JP-000970, 59-970  
SOURCE 85.12.06 SECT. E, SECTION NO. 364; VOL. 9, NO. 310,  
PG. 138.  
INT'L PATENT CLASS H01M-004/42; C22C-018/00  
JAPIO CLASS 42.9 (ELECTRONICS--Other); 12.2 (METALS--Metallurgy  
Heat Treating); 12.3 (METALS--Alloys)  
R057 (FIBERS--Non-woven Fabrics)  
FIXED KEYWORD CLASS  
ABSTRACT  
PURPOSE: To obtain a high-capacity zinc alkaline battery containing only a small amount of mercury by using as the negative active material an amalgamated zinc powder principally composed of zinc and containing at least one element chosen from among Pb, Cd and Sn and one of Tl and Ag as active elements.  
CONSTITUTION: An active material for a negative electrode 5 is prepared by amalgamating an alloy principally composed of zinc and containing at least one element chosen from among Pb, Cd and Sn and at least one of Tl and Ag. It is preferable that the above amalgamation through which alloy particles are coated with Hg be performed by a wet method by dropping Hg into a KOH solution of 30% concentration containing an alloy powder while stirring it.